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0022065

October 16, 1991

Meeting Minutes Transmittal/Approval
Unit Managers Meeting: 200-BP-1 Operable Unit
450 Hills Street, Rm 47
September 19, 1991

From/ Appvl.: Allan Harris Date: 12-17-91
Allan Harris, 200-BP-1 Unit Manager, DOE-RL (A5-19)
Appvl.: Douglas Ray Sherwood Date: _____
Doug Sherwood, 200-BP-1 Unit Manager, EPA (B5-01)
Appvl.: Charles P. Olive for LG Date 10/16/91 See changes
Larry Goldstein, 200-BP-1 Unit Manager, WA Department of Ecology

Meeting Minutes are attached. Minutes are comprised of the following:

- Attachment #1 - Meeting Summary/Summary of Commitments and Agreements
- Attachment #2 - Attendance List
- Attachment #3 - Agenda for the Meeting
- Attachment #4 - Status of Action Items
- Attachment #5 - 200-BP-1 Well Remediation
- Attachment #6 - 200-BP-1 Column Leach Testing
- Attachment #7 - 200-BP-1 Groundwater Well Sampling
- Attachment #8 - Hydraulic Pump Tests
- Attachment #9 - 200-BP-1 Wells Proposed for Aquifer Testing
- Attachment #10 - Source and Vadose Sampling Status
- Attachment #11 - Analytical Data Status
- Attachment #12 - 200-BP-1 Schedule

Prepared by: SWEC Support Services Date: 11/20/91
Concurrence by: Mak A. Baber Date: 11/20/91
WMC RI Coordinator



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Attachment #1

Meeting Summary and Summary of Commitments and Agreements

200-BP-1 Unit Manager's Meeting
September 19, 1991

Action Item Update

1. An update on the action items was given by Mark Buckmaster (WHC) (also see Attachment #4).

2BP1.48: Closed; Doug Sherwood said that if data that justifies a reduction in scope is obtained, the EPA will entertain the request for a reduction in scope. Allan Harris (DOE) stated that it was his recollection that when the action item was presented at last month's unit manager's meeting it was intended to apply to the drilling schedules for all of 200-BP-1, not just for the 216-B-49 crib. Doug Sherwood (EPA) stated that according to the approved schedule all 31 boreholes were to be drilled in the cribs by May. Mark Buckmaster agreed to prepare a proposal on the number of boreholes that were needed at the 200-BP-1 Operable Unit and present it to DOE.

Remedial Investigation - The status of well remediation activities was presented (Attachment #5).

3. The status of column leach testing was presented (see Attachment #6). Mark Buckmaster gave copies of the draft plan to EPA and DOE. Mr. Buckmaster stated he would like comments back as soon as possible because WHC had already collected samples and was ready to begin. Ward Staubitz (USGS) stated that he wanted to know the limitations of the test; e.g., working in a field trailer instead of a lab, the size of the column and the amount of water used. Also, Mr. Staubitz said not knowing the actual site contaminants might require additional tests to be done in the future because the tests may not meet the intent of the work plan. Doug Sherwood (EPA) stated that at a minimum EPA would need to know which samples would be used for the column leach test and that EPA would like to be involved in choosing which samples were used. Mark Buckmaster stated that he believed the radiation value for the samples to be used in the leach test was incorrect and that it should be 25 mRem rather than 0.5 mRem.

Action Item 2BP1.49: Written comments are to be submitted on the column leach test procedure at 200-BP-1. Action: Doug Sherwood

4. The status of groundwater sampling was presented by Mark Buckmaster (see Attachment #7). Doug Sherwood asked if Mr. Buckmaster had received a copy of the request for data on all of the projects. Mr. Buckmaster said that he was presenting some information that might satisfy the written request by Doug Sherwood.
5. The status of hydraulic pump tests was presented by Mark Buckmaster (see Attachment #8). Ward Staubitz stated that he agreed with Craig Swanson's interpretation that the usefulness of pump tests in well 699-

Is the
WR/cw
?

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Attachment #2

Attendance

200-BP-1 Operable Unit Managers Meeting
September 19, 1991

Name	Org.	O.U. Role	Phone
Harris, Allan	DOE-RL	Unit Manager	509-376-4339
Shafer, David	DOE-RL	Unit Manager	509-376-4670
Allender, Robbert	BCC	Ecology Support	503-244-7005
Cline, Chuck	Ecology	Hydrogeology	206-438-7556
Hibbard, Richard	Ecology	CERCLA Unit	206-493-9367
Sherwood, Doug	EPA	Unit Manager	509-376-9529
Shuster, Jerry	PRC	EPA Support	206-624-2692
Staubitz, Ward	USGS	EPA Support	206-593-6510
Fassett, Doug	SWEC	GSSC, DOE-RL	509-376-5011
Fryer, Bill	SWEC	GSSC, DOE-RL	509-376-0412
King, Joe	SWEC	GSSC, DOE-RL	509-376-4726
Shigley, Diane	SWEC	GSSC, DOE-RL	509-376-5038
Buckmaster, Mark	WHC	RI Coordinator	509-376-1792
Carlson, Rich	WHC	Env. Engineer	509-376-9027
Delaney, Cynthia	WHC	AMS Support	509-376-9235
Downey, Hal	WHC	ER Program Office	509-376-5539
Price, Randall	WHC	Logging	509-376-9148

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200-BP-1 UNIT MANAGERS MEETING AGENDA
SEPTEMBER 19, 1991
7:30-8:30 AM
450 HILLS ST., ROOM 47

Introduction:

Status:

Action Items:

Work Plan:

Remedial Investigation:

- o Well Remediation
- o Column Leach
- o Groundwater Sampling
- o Hydraulic Pump Tests
- o Source and Vadose Sampling

Issues:

Other Topics:

- o Analytical Data
- o Schedule

Agreements and Commitments:

9 2 1 2 6 4 6 1 1 7 3

ACTION ITEMS

<u>Item Number</u>	<u>Action</u>	<u>Status</u>
28P1.48	A proposal for a reduction in the number of boreholes locations in crib 216-B-49 is to be submitted to the regulators. Action: Buckmaster (8/15/91)	Closed: Meeting held August 20, 1991. No reduction until additional data is collected.

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200-BP-1 WELL REMEDIATION

1. A prejob safety meeting was held 9/16/91 and field activities will begin this week.
2. Over drilling to install surface seals will begin in the 600 Area (699-47-50).

9 2 1 2 6 1 6 1 1 7 5

200-BP-1 COLUMN LEACH TESTING

1. Safety assessment has been completed.
2. Emergency plan has been completed.
3. A radiological assessment will be completed in the next couple of weeks.
4. Column leach equipment is ready.
5. Test plan has been revised.
6. Testing should begin next month.

9 2 1 2 6 4 6 1 1 7 6

200-BP-1 GROUNDWATER WELL SAMPLING

STATUS-August 14, 1991

1. The third quarter of groundwater sampling has been completed.
2. Analytical Data:
 - o No additional data has been submitted since last month.

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HYDRAULIC PUMP TESTS

1. Aquifer testing will begin on well 699-49-57B next week followed by 699-52-54.
2. Test plans are currently being prepared for well 699-53-55C.
3. Well 699-55-55.
4. Proposed wells for testing.

9 2 1 2 5 4 6 1 1 7 8

200-8P-1 WELLS PROPOSED FOR AQUIFER TESTING

Existing Wells

WELL NUMBER	PERFORATED	MEETS PURGEWATER REQUIREMENT	TEST
299-E33-1	YES	YES	NO
299-E33-4	YES	YES	NO
299-E33-5	YES	YES	NO
299-E33-7	YES	YES	NO
299-E33-24	YES	YES	NO
699-49-57	YES	YES	NO
299-49-55A	YES	NO	NO
699-49-55B	NO	YES	YES
699-50-53A	YES	NO	NO
699-53-55B	YES	YES	NO
699-53-55C	NO	YES	YES
699-54-57	NO	YES	YES
699-55-57	YES	YES	NO
699-60-60	N/A	N/A	NONEXISTENCE

New Wells

WELL NUMBER	PERFORATED	MEETS PURGEWATER REQUIREMENTS	TEST
699-52-54	NO	YES	YES
699-52-57	NO	YES	YES
699-55-55	NO	YES	YES
699-49-57B	NO	YES	YES
699-50-53B	NO	YES	YES
299-E33-40	NO	YES	YES

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SOURCE AND VADOSE SAMPLING
STATUS-September 17, 1991

216-B-49

1. Recovery plan has been completed and drilling is proceeding.
2. High radiation levels have been dropping off (600 cpm).
3. Total depth drilled to date is 47 ft.
4. GPR was completed on 216-B-43. Results were inconclusive.

216-B-57

1. Borehole 216-B-57A has been drilled to total depth (235.5 ft.) No contamination was encountered past 39 ft. Abandonment activities have been initiated.
2. Borehole 216-B-57C has been drilled to total depth (50 ft.) and abandonment activities have been completed. No contamination was encountered.
3. Borehole 216-B-57B is currently at 41 ft. Contamination was encountered at 31 ft. (9000 cpm). Contamination is similar to borehole 216-B-57A. Total depth is estimated at 50 ft.

216-B-43

1. A third drill rig is scheduled to be mobilized to the site this week.

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9 2 1 2 6 4 6 1 1 8 1

Feet Meters

0 - 0
5 - 2
10 - 4
15 - 6
20 - 6
25 - 8
30 - 10
35 - 12
40 - 12
45 - 14
50 -

<50pci/g

<50pci/g

Cs₁₃₇ 32nci/g
Sr₉₀ 35nci/g
Cs₁₃₇ 24nci/g
Sr₉₀ 39nci/g

Cover
Soil

Distribution Pipe at 14 ft

Crib
Gravels

Vadose
Zone
Soils

Grain Size Scale - Horizontal Relief of Section Indicates
Grain Size of Dominant Particles in Bed.

C/Z S P
C/Z C/B

C/Z Clay and silt
S Sands (fine-grained to granular)
P Pebble Gravel
C/B Cobble to Boulder Gravel

Other Lithologies

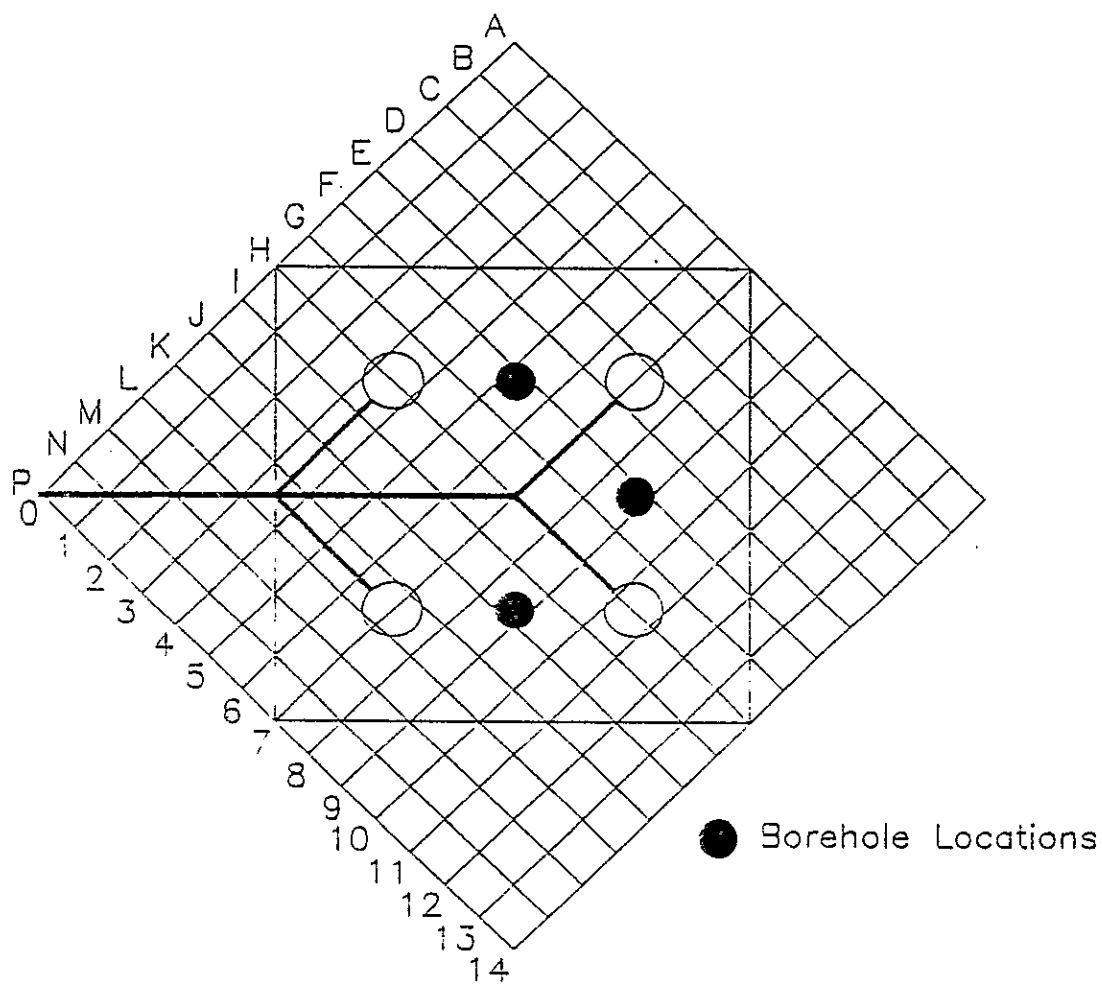
Cobbly/bouldery
Pebbly
Sandy
Silt rich
Clay rich

Current Depth = 43 ft

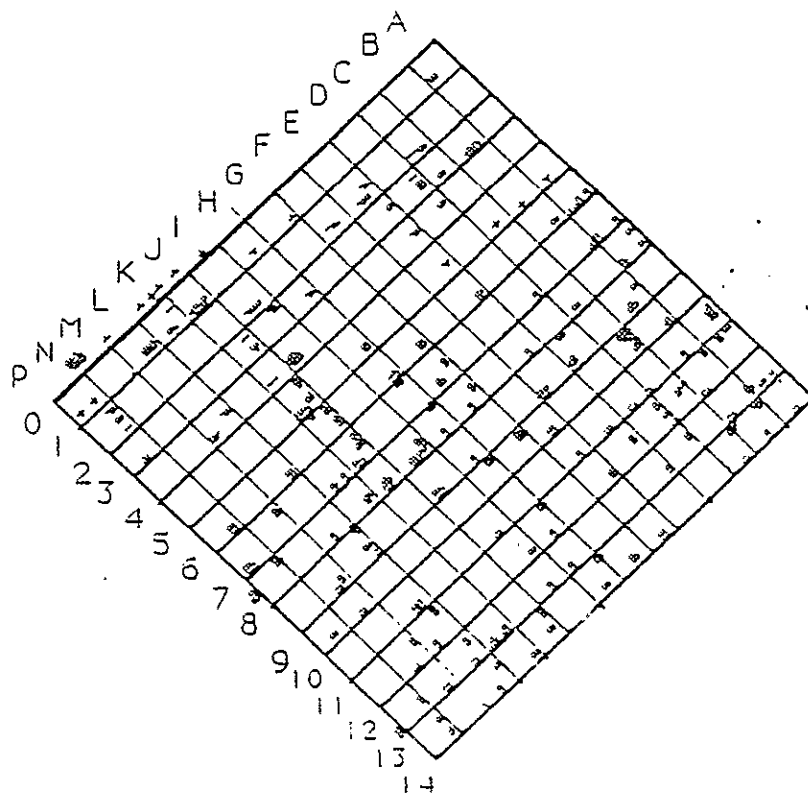
C/Z S P
C/Z C/B

Borehole 216-B-49A

Grid Layout Over 216-B-43 Crib



9 2 1 2 6 4 6 1 1 0 2




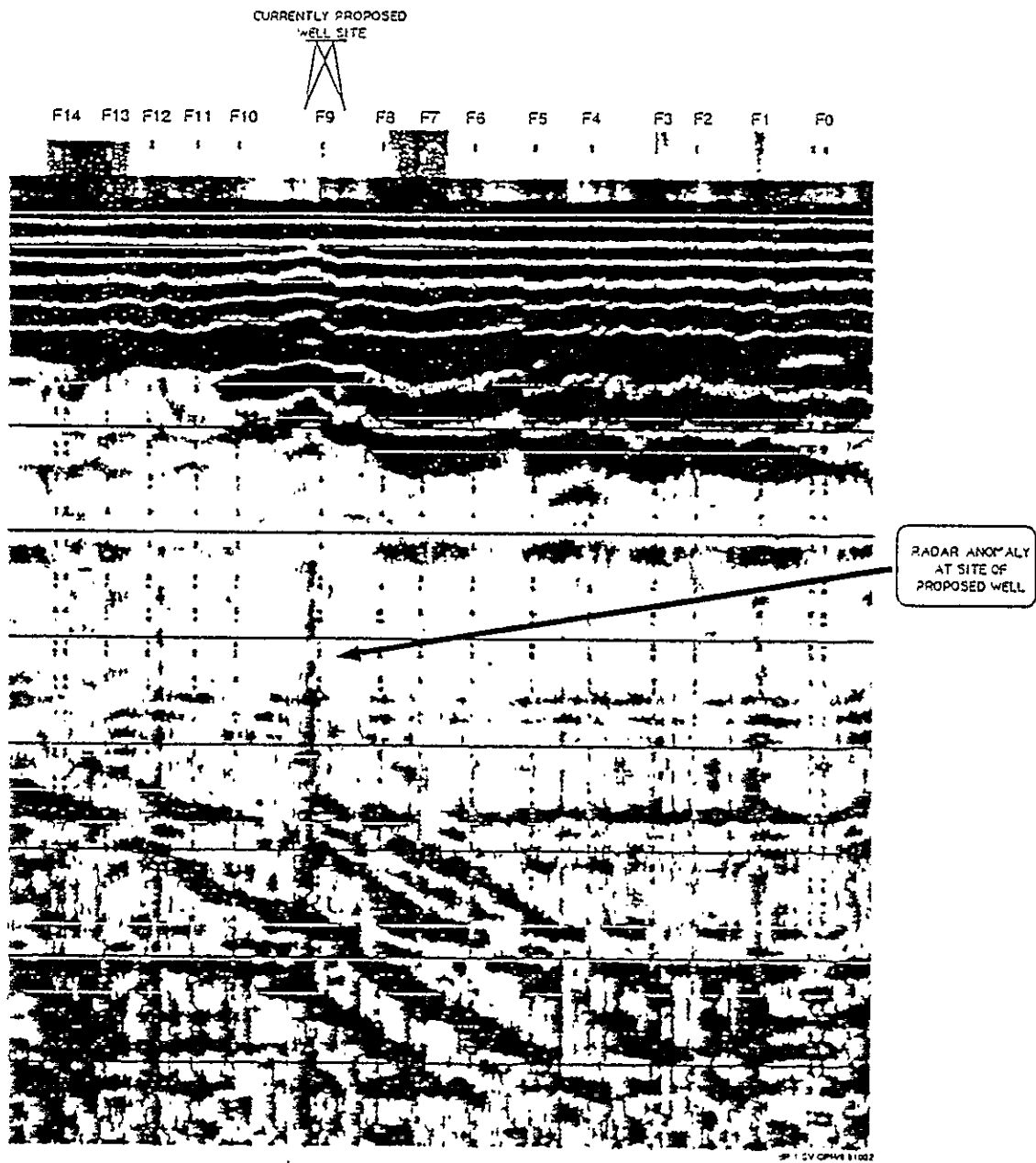
 GPR Anomalies

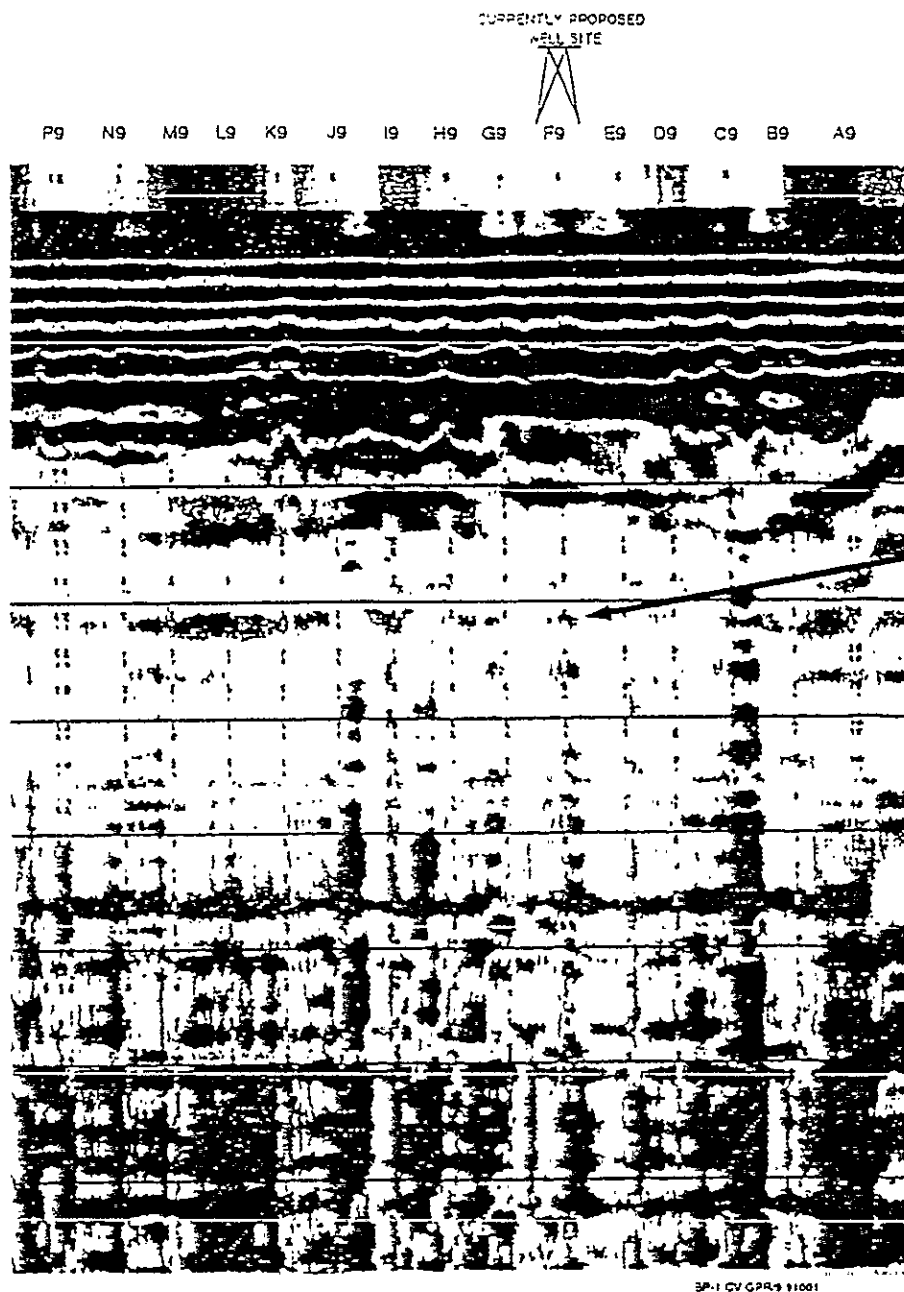
FIGURE 3. GPR Anomaly Locations Over 216-B-43 Crib.

9 2 1 2 6 1 1 8 4



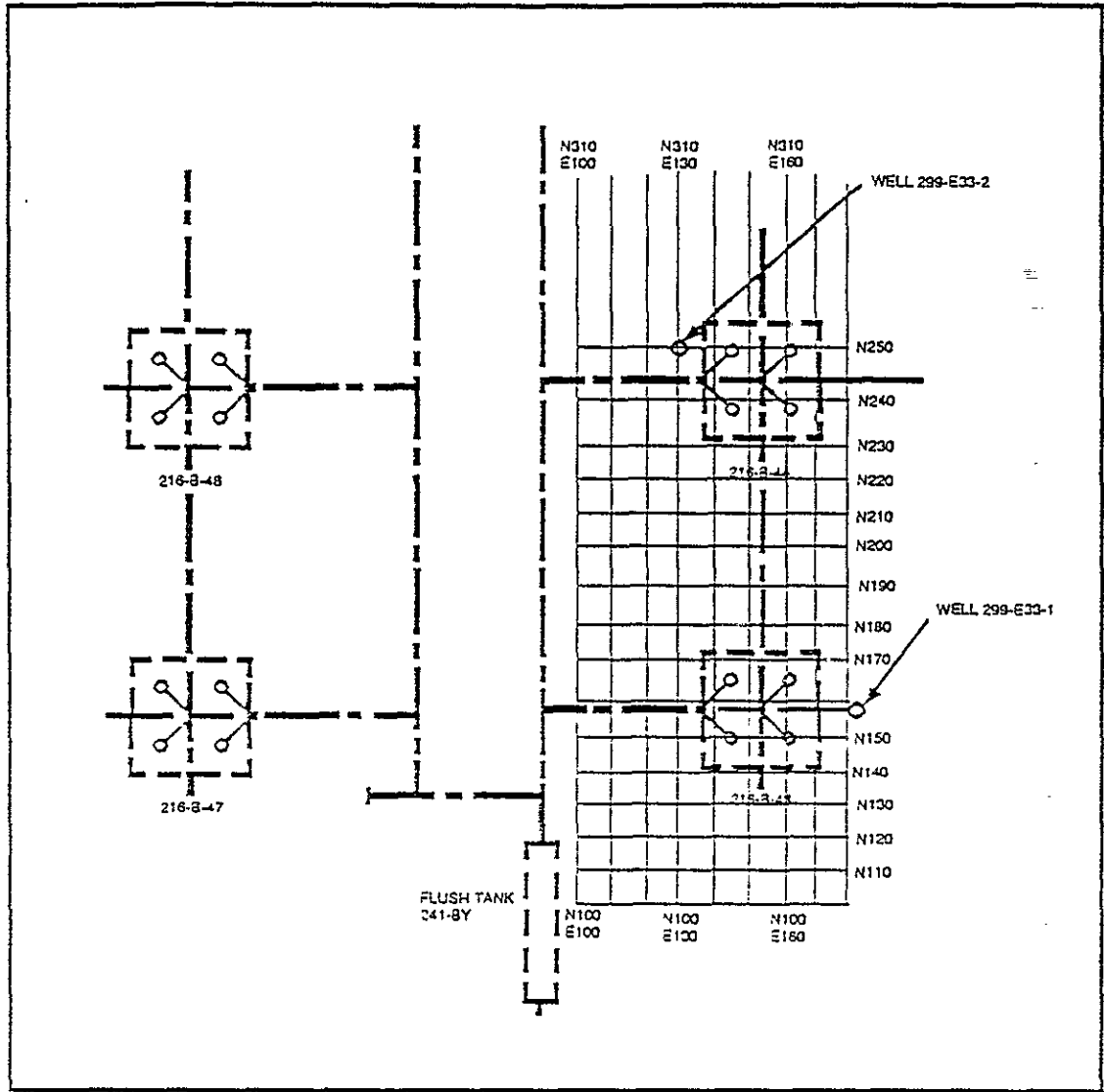
GPR Record Across Proposed Borehole Location.

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BP-1 CV GPR 91001

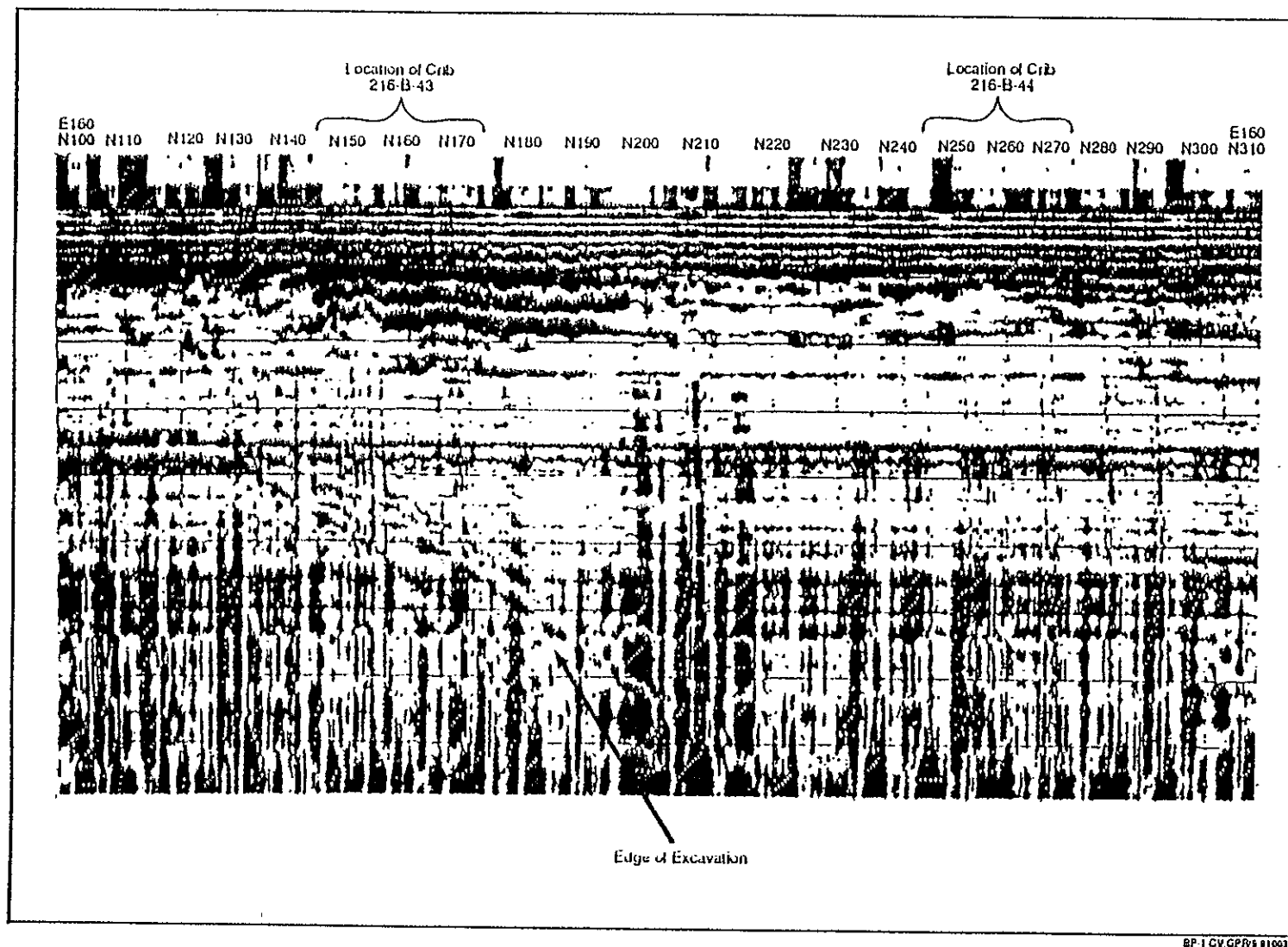
Intersecting GPR Traverse Across Proposed Borehole Location



BP-1.CV2/9.91

Approximate Location of Additional GPR Traverses

9 2 1 2 6 4 6 1 1 3 7



BP-1 CV GPR 81001

North - South GPR record Across Crib #43 and #44

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Crib 216-B-57

Test Well
#299-E33-22

C

B

A

Bottom Of Crib
EL. 621'-0"

Chain Barricade
Per Hanford STD
AC-5-2 Without
Radiation Signs

INV 4" Drain EL. 624.75 - INV 12" Corr Pipe EL. 624.0

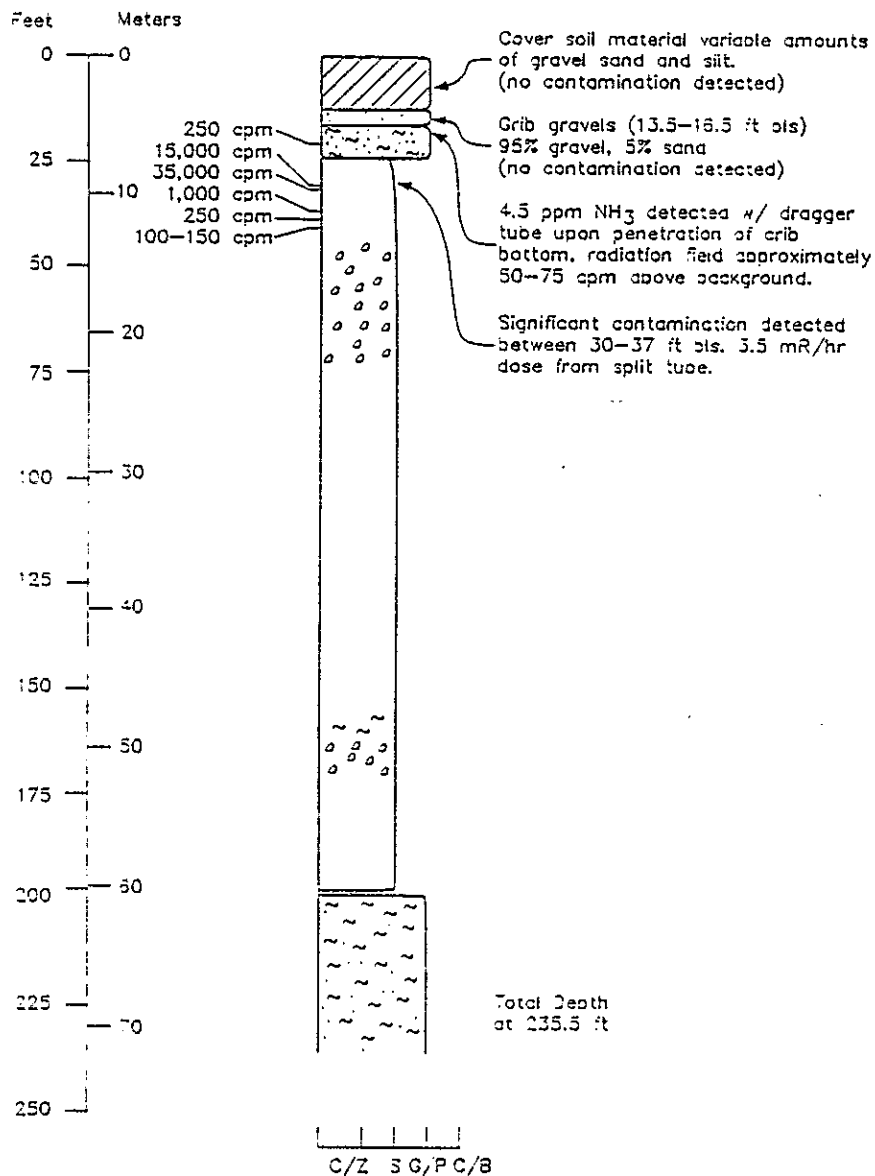
Concrete Identification Marker Per
Hanford STD AC-5-40

⊕ Borehole Locations

BUCK/M071791-A

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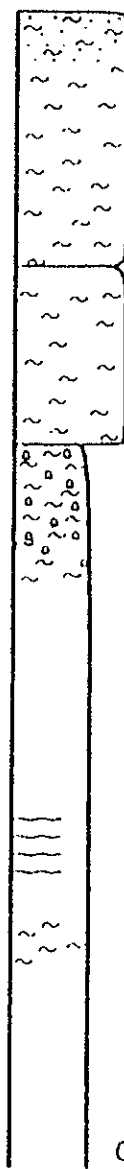
BOREHOLE 216-B-57A (Background Radiation Field Approximately 100 cpm)



9 2 1 2 6 1 6 1 1 9 0

Feet Meters

0 - 0
5 - 2
10 - 4
15 - 6
20 - 8
25 - 10
30 - 12
35 - 14
40 - 16
45 - 18
50 - 20



Cover Soil

Crib Gravels

Vadose Zone Soils

Borehole 216-B-57C

Grain Size Scale - Horizontal Relief of Section Indicates Grain Size of Dominant Particles In Bed.

C/Z Clay and silt
S Sands (fine-grained to granular)
P Pebble Gravel
C/B Cobble to Boulder Gravel

Other Lithologies

Cobbly/bouldery
Pebbly
Sandy
Silt rich
Clay rich

Current Depth = 50 ft

C/Z S P C/B

GEOSCI\091891-B

200-BP-1 ANALYTICAL DATA STATUS

ACTIVITY	SAMPLES COLLECTED	VALIDATED INORGANIC	VALIDATED ORGANIC	RADCHEM
TASK 2/4	39	-	-	-
TASK 3	26	26	26	-
TASK 6	37	17	20	17
TASK 7	132	21	8	31

9 2 1 2 6 1 6 1 1 9 1

9 2 1 2 6 4 6 1 1 9 2

200-BP-1 OPERABLE UNIT

PHASE 1 REMEDIAL INVESTIGATION

TASK-1 MANAGEMENT & STATUS REPORTS

TASK-2 SOURCE SAMPLING AND ANALYSIS

TASK-2a PREPARATION

TASK-2b DRILLING AND SOIL SAMPLING

TASK-2c SAMPLE HANDLING AND TRANSPORT

TASK-2d LABORATORY AVAIL. & CHEMICAL ANALYSIS

TASK-2e BOREHOLE GEOPHYSICS

TASK-2f GEOMETRIC SURVEY

TASK-2g BOREHOLE SURVEY

TASK-3 SURFACE/NEAR SURFACE SOIL SAMPLING/ANALYSIS

TASK-3a PREPARATION

TASK-3b EVALUATE & TEST LEAK DETECTION TECHNIQUE

TASK-3c SCINTILLATION SURVEY OF LAND SURFACE

TASK-3d STAGE 1 SOIL PROBE SURVEY

TASK-3e STAGE 2 SOIL PROBE SURVEY

TASK-3f SOIL SAMPLING

TASK-3g GEOMETRIC CONTROL & SURVEY

TASK-3h LABORATORY AVAIL. & CHEMICAL ANALYSIS

TASK-4 VADOSE ZONE SOIL SAMPLING & ANALYSIS

TASK-4a REVIEW & PREPARATION

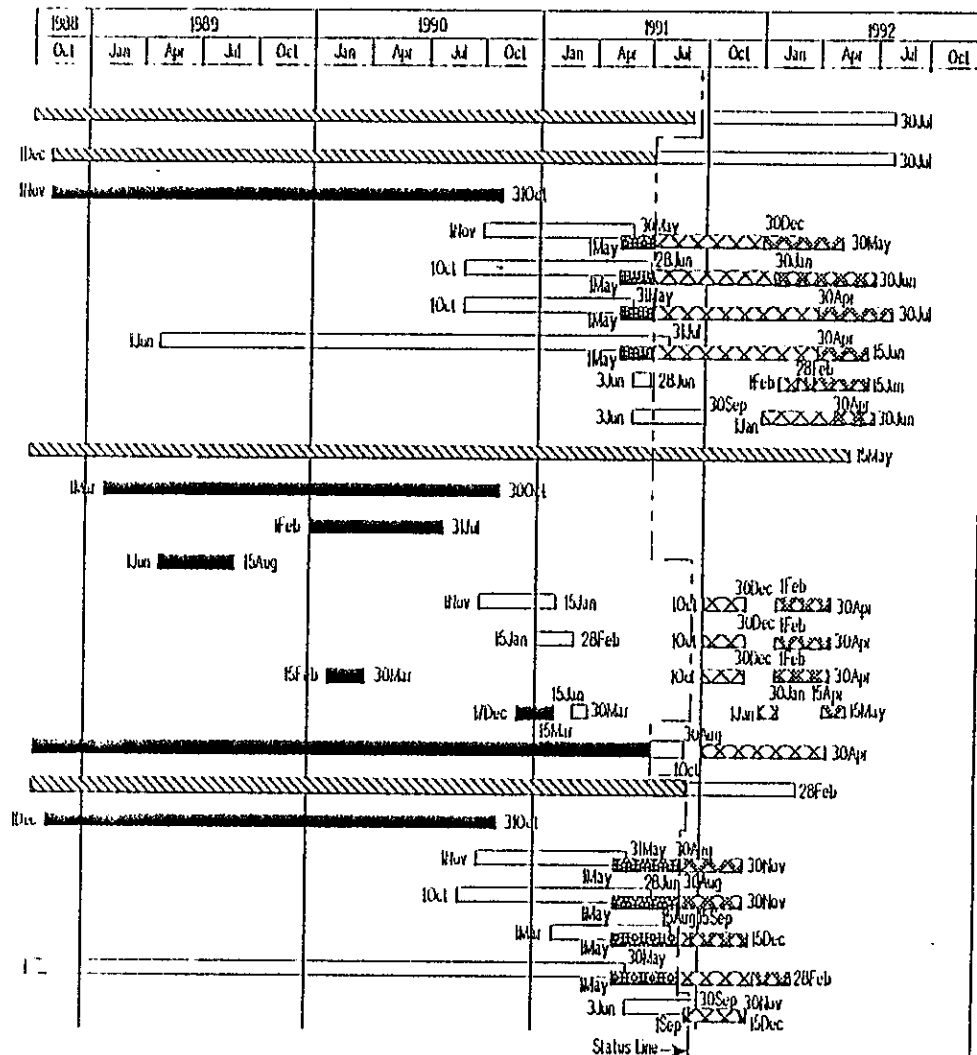
TASK-4b DRILLING & SAMPLING

TASK-4c SAMPLING, HANDLING & TRANSPORT

TASK-4d BOREHOLE GEOPHYSICS

TASK-4e LABORATORY AVAIL. & CHEMICAL ANALYSIS

TASK-4f BOREHOLE ABANDONMENT



LEGEND:

- Original Schedule Activities
- Summary Activities
- Revised Activities
- Actual Activities

Project: EE3AI

200BP11

Date: 18 Sep 91 12:52

200-BP-1 REMEDIAL INVESTIGATION Pg. 11

Page: 1 of 3

Drawn by: Steve J. Sukey

6-3092

200-BP-1 Operable Unit Managers Meeting
September 19, 1991

Distribution

Donna Lacombe, PRC
Ward Staubitz, USGS
Doug Fassett, SWEC (A4-35)
Linda Powers, WHC (B2-35)
Tom Wintczak, WHC (B2-15)
Mel Adams, WHC (H4-55)
Wayne Johnson, WHC (H4-55)
Rich Carlson, WHC (H4-55)
Brian Sprouse, WHC (H4-22)
Bill Price, WHC (S0-03)
Ralph O. Patt,
OR Water Resources Dept.
Doug Dunster, Golder Assoc.
Mike Thompson, DOE (A6-95)
Diane Clark, DOE (A5-55)
Mark Buckmaster, WHC (H4-55)
Don Praast, GAO (A1-80)

Ronald D. Izatt (A6-95)
Director, DOE-RL, ERD
Donald E. Gerton (A6-80)
Director, DOE-RL, WMD
Roger D. Freeberg (A6-95)
Chief, Rstr. Br., DOE-RL/ERD
Steven H. Wisness (A6-95)
Tri-Party Agreement Proj. Mgr
Richard D. Wojtasek (B2-15)
Prgm. Mgr. WHC
Mary Harmon, DOE-HQ (EM-442)

ADMINISTRATIVE RECORD: 200-BP-1; Care of Susan Wray, WHC (H4-51C)

Please inform Doug Fassett (SWEC) of deletions or additions to the distribution list.

9 2 1 2 5 4 6 1 1 9 3